## Amendments to the Claims

Please amend Claims 1, 2, 3 and 10.

Please add new Claims 17-41.

Please cancel Claim 12.

The Claim Listing below will replace all prior versions of the claims in the application:

## Claim Listing

- (Currently Amended) A method for detecting the presence or absence of Listeria
  monocytogenes in a test sample, the method comprising the steps of:
  - a) contacting a test sample with a <u>peptide</u> substrate specific for a protease that is unique to *Listeria monocytogenes*; and
  - detecting cleavage of the <u>peptide</u> substrate or absence of cleavage of the <u>peptide</u> substrate.

wherein cleavage of the <u>peptide</u> substrate is indicative of the presence of *Listeria* monocytogenes in the sample, and absence of cleavage of the substrate is indicative of the absence of *Listeria monocytogenes* in the <u>test</u> sample.

- (Currently Amended) The method of claim 10, wherein the quenched label is selected from the group consisting of fluorescent labels and colorimetric chromagenic labels.
- 3. (Currently Amended) The method of claim 2 wherein the cleavage is detected using a colorimeter, or fluorimeter, or a UV lamp.
- (Canceled)
- (Withdrawn) A method of using broad spectrum fluorescent or colorimetric labeled peptides to recognize a bacterial species by detecting the conjugated peptide with a colorimeter or fluorimeter.
- (Withdrawn) A device for capturing and releasing bacteria from solid or liquid extracts comprising protein encapsulated starch or Styrofoam.

- 7. (Withdrawn) A device for capturing and releasing bacteria from a sample, said device comprising a pellet and a layer of antibodies entrapped in gelatin surrounding said pellet.
- 8. (Withdrawn) A sensor for detection of a microbial pathogen in a sample, said sensor comprising packaging material having a first side proximal to said sample and having a second side; and having a detectably labeled substrate specific for a protease produced by said microbial pathogen attached to said first side.
- 9. (Withdrawn) A method for using an alpha-crystallin type protein comprising the steps of:
  - a) expressing and purifying the recombinant alpha-crystallin type protein; and
  - b) adding the alpha-crystallin type protein to a solid phase or a liquid phase assay containing a day labeled peptide in an amount sufficient to reduce proteolysis of said dye labeled peptide.
- 10. (Currently Amended) The method of claim 1 wherein the <u>peptide</u> substrate is labeled with a quenched label.

## Claims 11 - 16 (Canceled)

- 17. (New) The method of Claim 1, wherein the peptide substrate is labeled.
- 18. (New) The method of Claim 17, wherein the label is fluorescent or chromagenic.
- 19. (New) The method of Claim 18, wherein the fluorescent label comprises a fluorophere and a quencher.
- 20. (New) The method of Claim 19, wherein if the fluorescent labeled peptide substrate is cleaved, a fluorescent signal is produced.
- (New) The method of Claim 20, wherein the fluorescent signal is detected by a fluorimeter or by UV lamp.

- 22. (New) The method of Claim 18, wherein if the chromagenically labeled peptide substrate is cleaved, a visible colorimetric signal is produced.
- 23. (New) The method of Claim 18, wherein if the chomagenically labeled peptide substrate is cleaved, a signal is detected by a colorimeter.
- 24. (New) The method of Claim 1, wherein the protease is metalloprotease.
- 25. (New) The method of Claim 1, wherein the peptide substrate comprises SEQ ID NO: 1 or SEQ ID NO: 2.
- 26. (New) The method of Claim 1, wherein the test sample comprises a bacterial extract.
- 27. (New) The method of Claim 1, wherein the peptide substrate is attached to a surface.
- 28. (New) The method of Claim 27, wherein the surface is glass or polypropylene.
- 29. (New) A method for detecting the presence of *Listeria monocytogenes* in a test sample, the method comprising the steps of:
  - a) contacting the test sample with a peptide substrate specific for a protease that is unique to *Listeria monocytogenes*, wherein the peptide substrate comprises an amino acid sequence selected from the group consisting of:
    - i) SEQ ID NO. 1; or
    - ii) SEQ ID NO. 2; and
  - b) detecting cleavage of the peptide substrate or absence of cleavage of the peptide substrate.

wherein cleavage of the peptide substrate is indicative of the presence of *Listeria* monocytogenes in the test sample, and absence of cleavage of the peptide substrate is indicative of the absence of *Listeria monocytogenes* in the test sample.

30. (New) The method of Claim 29, wherein the peptide substrate is labeled.

- 31. (New) The method of Claim 30, wherein the label is fluorescent or chromagenic.
- 32. (New) The method of Claim 31, wherein the fluorescent label comprises a fluorophere and a quencher.
- 33. (New) The method of Claim 32, wherein if the fluorescent labeled protease substrate is cleaved, a fluorescent signal is produced.
- 34. (New) The method of Claim 33, wherein the fluorescent signal is detected by a fluorimeter or by UV lamp.
- 35. (New) The method of Claim 31, wherein if the chromagenically labeled peptide substrate is cleaved, a visual colorimetric signal is produced.
- 36. (New) The method of Claim 31, wherein if the chromagenically labeled peptide substrate is cleaved, a colorimetric signal is detected by a colorimeter.
- 37. (New) The method of Claim 29, wherein the protease is metalloprotease.
- 38. (New) The method of Claim 29, wherein the peptide substrate comprises SEQ ID NO: 1 or SEQ ID NO: 2.
- 39. (New) The method of Claim 29, wherein the test sample comprises a bacterial extract.
- 40. (New) The method of Claim 29, wherein the labeled peptide substrate is attached to a surface.
- 41. (New) The method of Claim 40, wherein the surface is glass or polypropylene.